

ABSTRACT OF THE DISCLOSURE

5 A magnetic device has a layer containing fine  
pores and having wirings on both faces of the layer  
formed on a substrate, wherein at least a part of the  
pores are filled with a layered column formed by  
stacking magnetic layers and nonmagnetic layers  
alternately, and at least a part of the pores filled  
with a conductive column as writing wires for writing  
into the magnetic layers in the adjacent pores. The  
10 fine pores may be nano-holes of alumina formed by  
anodic oxidation. A part of the pores may serve to  
intercept a magnetic field. The magnetic layer may  
contain Co, and the nonmagnetic layer and/or the  
writing wire may contain Cu. The pores may be arranged  
15 in a honeycomb arrangement or a rectangular array. The  
ratio of the sectional area  $S$  ( $\text{cm}^2$ ) of the pore and the  
length (cm) of the pore satisfy the relation:  $10^5 < L/S$   
<  $10^8$ .

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